

U. S. GEOLOGICAL SURVEY  
ANNUAL PEAK FLOW FREQUENCY ANALYSIS  
Following Bulletin 17-B Guidelines  
Program peakfq  
(Version 4.0, December, 2000)

Station - 05365700 GOGGLE-EYE CREEK NEAR THORP, WI  
2002 MAR 13 09:02:52

I N P U T      D A T A      S U M M A R Y

Number of peaks in record	=	36
Peaks not used in analysis	=	0
Systematic peaks in analysis	=	36
Historic peaks in analysis	=	0
Years of historic record	=	0
Generalized skew	=	-0.296
Standard error of generalized skew	=	0.550
Skew option	=	WEIGHTED
Gage base discharge	=	80.0
User supplied high outlier threshold	=	--
User supplied low outlier criterion	=	--
Plotting position parameter	=	0.00

\*\*\*\*\* NOTICE -- Preliminary machine computations. \*\*\*\*\*  
\*\*\*\*\* User responsible for assessment and interpretation. \*\*\*\*\*

WCF133I-SYSTEMATIC PEAKS BELOW GAGE BASE WERE NOTED.	2	80.0
WCF163I-NO HIGH OUTLIERS OR HISTORIC PEAKS EXCEEDED HHBASE.		3957.4
WCF195I-NO LOW OUTLIERS WERE DETECTED BELOW CRITERION.		57.1

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ANNUAL FREQUENCY CURVE PARAMETERS -- LOG-PEARSON TYPE III

	FLOOD BASE	LOGARITHMIC		
	EXCEEDANCE DISCHARGE	MEAN	STANDARD DEVIATION	SKEW
SYSTEMATIC RECORD	80.0	0.9444	2.6496	0.3634
BULL.17B ESTIMATE	80.0	0.9444	2.6496	0.3634

ANNUAL FREQUENCY CURVE -- DISCHARGES AT SELECTED EXCEEDANCE PROBABILITIES

ANNUAL EXCEEDANCE PROBABILITY	BULL.17B ESTIMATE	SYSTEMATIC RECORD	'EXPECTED PROBABILITY'	95-PCT CONFIDENCE LIMITS FOR BULL. 17B ESTIMATES	
			ESTIMATE	LOWER	UPPER
0.9000	154.9	159.4	149.8	108.0	204.2
0.8000	219.5	218.2	215.7	162.0	280.9
0.5000	437.0	421.7	437.0	345.5	551.8
0.2000	896.4	883.3	913.8	700.9	1213.0
0.1000	1321.0	1344.0	1373.0	999.3	1905.0
0.0400	2015.0	2156.0	2164.0	1454.0	3153.0
0.0200	2661.0	2969.0	2947.0	1853.0	4411.0
0.0100	3428.0	3997.0	3933.0	2307.0	6003.0
0.0050	4336.0	5291.0	5179.0	2823.0	7996.0
0.0020	5784.0	7510.0	7338.0	3612.0	11380.0
0.6667	306.3	( 1.50-year flood )			
0.4292	506.9	( 2.33-year flood )			

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2002 MAR 13 09:02:52

I N P U T    D A T A    L I S T I N G

WATER YEAR	DISCHARGE	CODES	WATER YEAR	DISCHARGE	CODES
1958	2610.0		1976	250.0	
1959	760.0		1977	200.0	
1960	390.0		1978	300.0	
1961	1440.0		1979	270.0	
1962	250.0		1980	2880.0	
1963	420.0		1981	270.0	
1964	170.0		1982	1020.0	
1965	290.0		1983	440.0	
1966	310.0		1984	80.0	L
1967	1150.0		1985	200.0	
1968	630.0		1986	1660.0	
1969	710.0		1987	50.0	L
1970	230.0		1988	290.0	
1971	580.0		1989	550.0	
1972	160.0		1990	1360.0	
1973	720.0		1991	700.0	
1974	360.0		1992	400.0	
1975	100.0		1993	730.0	

Explanation of peak discharge qualification codes

PEAKFQ	WATSTORE	
CODE	CODE	DEFINITION
D	3	Dam failure, non-recurrent flow anomaly
G	8	Discharge greater than stated value
X	3+8	Both of the above
L	4	Discharge less than stated value
K	6 OR C	Known effect of regulation or urbanization
H	7	Historic peak

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EMPIRICAL FREQUENCY CURVES -- WEIBULL PLOTTING POSITIONS

WATER YEAR	RANKED DISCHARGE	SYSTEMATIC RECORD	BULL.17B ESTIMATE
1980	2880.0	0.0270	0.0270
1958	2610.0	0.0541	0.0541
1986	1660.0	0.0811	0.0811
1961	1440.0	0.1081	0.1081
1990	1360.0	0.1351	0.1351
1967	1150.0	0.1622	0.1622
1982	1020.0	0.1892	0.1892
1959	760.0	0.2162	0.2162
1993	730.0	0.2432	0.2432
1973	720.0	0.2703	0.2703
1969	710.0	0.2973	0.2973
1991	700.0	0.3243	0.3243
1968	630.0	0.3514	0.3514
1971	580.0	0.3784	0.3784
1989	550.0	0.4054	0.4054
1983	440.0	0.4324	0.4324
1963	420.0	0.4595	0.4595
1992	400.0	0.4865	0.4865
1960	390.0	0.5135	0.5135
1974	360.0	0.5405	0.5405
1966	310.0	0.5676	0.5676
1978	300.0	0.5946	0.5946
1965	290.0	0.6216	0.6216
1988	290.0	0.6486	0.6486
1979	270.0	0.6757	0.6757
1981	270.0	0.7027	0.7027
1962	250.0	0.7297	0.7297
1976	250.0	0.7568	0.7568
1970	230.0	0.7838	0.7838
1977	200.0	0.8108	0.8108
1985	200.0	0.8378	0.8378
1964	170.0	0.8649	0.8649
1972	160.0	0.8919	0.8919
1975	100.0	0.9189	0.9189
1984	80.0	--	--
1987	50.0	--	--

